

## WEST Search History

DATE: Saturday, September 14, 2002

Part of Paper No.

U.S. Patent and Trademark Office

**Set Name Query**

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result set

*DB=USPT; PLUR=YES; OP=ADJ*

L6	L4 and DNA methyltransferase	12	L6
L5	L4 and DNA methylase	1	L5
L4	L3 and transgenic	114	L4
L3	L2 and (gene or cdna or coding sequence)	193	L3
L2	methyltransferase and (corn or maize or zea mays)	234	L2
L1	zmet2a	0	L1

END OF SEARCH HISTORY

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN
NEWS	40	May 19	Simultaneous left and right truncation added to WSCA
NEWS	41	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
 MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
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FILE 'HOME' ENTERED AT 13:17:48 ON 05 JUN 2003

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FILE 'BIOSIS' ENTERED AT 13:18:06 ON 05 JUN 2003  
 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)

=> s zmet2a  
 L1 2 ZMET2A

=> dup rem l1  
 PROCESSING COMPLETED FOR L1  
 L2 2 DUP REM L1 (0 DUPLICATES REMOVED)

=> d 1-2 ti

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
 TI Analysis of **zmet2a**: A maize methyltransferase essential for  
 CpNpG methylation

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
 TI Class II DNA methyltransferases of maize

=> s ((papa, c?) or (papa c?))/au  
 L3 163 ((PAPA, C?) OR (PAPA C?))/AU

=> s l3 and methyltransferase  
 L4 5 L3 AND METHYLTRANSFERASE

=> dup rem l4  
 PROCESSING COMPLETED FOR L4  
 L5 3 DUP REM L4 (2 DUPLICATES REMOVED)

=> d 1-3 ti

L5 ANSWER 1 OF 3 AGRICOLA Compiled and distributed by the National  
Agricultural Library of the Department of Agriculture of the United States  
of America. It contains copyrighted materials. All rights reserved.  
(2003) DUPLICATE 1

TI Maize chromomethylase Zea methyltransferase2 is required for CpNpG  
methylation.

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

TI Analysis of zmet2a: A maize **methyltransferase** essential for  
CpNpG methylation

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

TI Class II DNA methyltransferases of maize

=> s ((kaeppler s? or (kaeppler, s?))/au

UNMATCHED LEFT PARENTHESIS '((KAEPLER'

The number of right parentheses in a query must be equal to the  
number of left parentheses.

=> s ((kaeppler s?) or (kaeppler, s?))/au

L6 95 ((KAEPLER S?) OR (KAEPLER, S?))/AU

=> s l6 and methyltransferase

L7 0 L6 AND METHYLTRANSFERASE

=> s l6 and methyltransferase

L8 8 L6 AND METHYLTRANSFERASE

=> dup rem l8

PROCESSING COMPLETED FOR L8

L9 4 DUP REM L8 (4 DUPLICATES REMOVED)

=> d 1-4 ti

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI Nucleic acid and amino acid sequences encoding a de novo DNA  
**methyltransferase** from corn and the use of the  
**methyltransferase** for altering a target gene methylation in a  
plant

L9 ANSWER 2 OF 4 AGRICOLA Compiled and distributed by the National  
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of America. It contains copyrighted materials. All rights reserved.  
(2003) DUPLICATE 1

TI Maize chromomethylase Zea methyltransferase2 is required for CpNpG  
methylation.

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI Class II DNA methyltransferases of maize

L9 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National  
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(2003) DUPLICATE 2

TI Conserved plant genes with similarity to mammalian de novo DNA  
methyltransferases.

=> s zmet2?

L10 5 ZMET2?

```

=> dup rem l10
PROCESSING COMPLETED FOR L10
L11          3 DUP REM L10 (2 DUPLICATES REMOVED)

=> d 1-3 ti

L11 ANSWER 1 OF 3  AGRICOLA  Compiled and distributed by the National
    Agricultural Library of the Department of Agriculture of the United States
    of America.  It contains copyrighted materials.  All rights reserved.
    (2003)                                DUPLICATE 1
TI  Maize chromomethylase Zea methyltransferase2 is required for CpNpG
    methylation.

L11 ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2003 ACS
TI  Analysis of zmet2a: A maize methyltransferase essential for
    CpNpG methylation

L11 ANSWER 3 OF 3  CAPLUS  COPYRIGHT 2003 ACS
TI  Class II DNA methyltransferases of maize

=> s methyltransferase and (corn or maize or zea)
L12          215 METHYLTRANSFERASE AND (CORN OR MAIZE OR ZEA)

=> s l12 and (gene or cdna or coding region)
L13          141 L12 AND (GENE OR CDNA OR CODING REGION)

=> s l13 and dna methyltransferase
L14          20 L13 AND DNA METHYLTRANSFERASE

=> dup rem l14
PROCESSING COMPLETED FOR L14
L15          15 DUP REM L14 (5 DUPLICATES REMOVED)

=> d 1-5 ti

L15 ANSWER 1 OF 15  CAPLUS  COPYRIGHT 2003 ACS
TI  Chimeric histone acetyltransferase polypeptides, and uses for determining
    gene expression profiles and modulating gene expression
    in plant cells

L15 ANSWER 2 OF 15  CAPLUS  COPYRIGHT 2003 ACS
TI  Rules for design of sequence-specific zinc finger peptides and the design
    of novel DNA binding proteins for regulation of genetic processes

L15 ANSWER 3 OF 15  CAPLUS  COPYRIGHT 2003 ACS
TI  Usage of zinc finger proteins and their fusions with effector domains to
    regulate gene expression and metabolic pathways in plants

L15 ANSWER 4 OF 15  CAPLUS  COPYRIGHT 2003 ACS
TI  Zinc finger domain recognition code for use in designing DNA binding
    proteins

L15 ANSWER 5 OF 15  CAPLUS  COPYRIGHT 2003 ACS
TI  Reverse genetic strategy for identifying functional mutations, TILLING
    (targeting induced local lesions in genomics) that combines chemical
    mutagenesis with a sensitive mutation detection

=> d 1-3 ab

L15 ANSWER 1 OF 15  CAPLUS  COPYRIGHT 2003 ACS
AB  The present invention discloses chimeric polypeptides that comprise a
    first polypeptide segment having histone acetyltransferase enzymic

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activity and a second polypeptide segment that is similar to a subunit of a chromatin-assocd. histone deacetyltransferase protein complex, and uses for detg. **gene** expression profiles and modulating **gene** expression in plant cells. Also disclosed are nucleic acids encoding such chimeric polypeptides and eukaryotic organisms expressing such chimeric polypeptides. The invention also features methods for detecting the expression of one or more genes in the eukaryotes, and methods for modulating **gene** expression in the eukaryotes.

L15 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2003 ACS

AB The present invention relates to DNA binding proteins comprising zinc finger domains in which two histidine and two cysteine residues coordinate a central zinc ion. More particularly, the invention relates to the identification of a context-independent recognition code to design zinc finger domains. This code permits identification of an amino acid for positions -1, 2, 3 and 6 of the .alpha.-helical region of the zinc finger domain from four-base pair nucleotide target sequences. The invention includes zinc finger proteins (ZFPs) designed using this recognition code, nucleic acids encoding these ZFPs and methods of using such ZFPs to modulate **gene** expression, alter genome structure, inhibit viral replication and detect alterations (e.g., nucleotide substitutions, deletions or insertions) in the binding sites for such proteins. In addn., the invention provides a rapid method of assembling a ZFP with three or more zinc finger domains using three sets of 256 oligonucleotides, where each set is designed to target the 256 different 4-base pair targets and allow prodn. of all possible 3-finger ZFPs (i.e., >>106) from a total of 768 oligonucleotides. The invention also is directed to a method of prepg. artificial transcription factors.

L15 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2003 ACS

AB The invention relates to the field of plant and agricultural technol. More specifically, the invention relates to the construction of zinc finger proteins and fusions of said proteins and their use to regulate **gene** expression and metabolic pathways in plants. Plant genes AP3 and MIPS were examd. for suitable zinc finger binding sites. The novel engineered zinc finger proteins used in the present methods are ZFPm1, ZFPm2, ZFPm3, ZFPm4 and ZFPap3. These proteins can be used alone or fused to an effector domain. The present methods can be used to modulate **gene** expression in monocot or dicot plant cells.

=> d 6-10 ti

L15 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2003 ACS

TI Nucleic acid and amino acid sequences encoding a de novo DNA **methyltransferase** from **corn** and the use of the **methyltransferase** for altering a target **gene** methylation in a plant

L15 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2003 ACS

TI Usage of zinc finger protein to regulate **gene** expression and metabolic pathways in plants and creation of five zinc finger proteins

L15 ANSWER 8 OF 15 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) DUPLICATE 1

TI **Maize** chromomethylase **Zea methyltransferase2** is required for CpNpG methylation.

L15 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2003 ACS

TI Selection and orientation of adjacent genes influences DAM-mediated male sterility in transformed **maize**

L15 ANSWER 10 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
TI Hypomethylation of the c-Myc **gene** by the peroxisome proliferator, Wy-14,643.

=> d 11-15 ti

L15 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2003 ACS  
TI Class II DNA methyltransferases of **maize**

L15 ANSWER 12 OF 15 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.  
(2003) DUPLICATE 2

TI Conserved plant genes with similarity to mammalian de novo DNA methyltransferases.

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(2003) DUPLICATE 3

TI Expression of ZmMET1, a **gene** encoding a DNA methyltransferase from **maize**, is associated not only with DNA replication in actively proliferating cells, but also with altered DNA methylation status in cold-stressed quiescent cells.

L15 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2003 ACS  
TI Cloning and characterization of the 5-methylcytosine methyltransferase **gene** in **maize** (*zea mays*) plants and tissue cultures

L15 ANSWER 15 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
TI CHANGES IN DNA METHYLTRANSFERASE INDUCED BY TREATMENT WITH N-2 ACETYLAMINOFLUORENE.

=> s cmt1  
L16 183 CMT1

=> s l16 and methyltransferase  
L17 7 L16 AND METHYLTRANSFERASE

=> dup rem l17  
PROCESSING COMPLETED FOR L17  
L18 3 DUP REM L17 (4 DUPLICATES REMOVED)

=> d 1-3 ti

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(2003) DUPLICATE 1

TI Maize chromomethylase Zea methyltransferase2 is required for CpNpG methylation.

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2  
TI The Candida albicans gene for mRNA 5'-cap methyltransferase: identification of additional residues essential for catalysis

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 3  
TI A DNA methyltransferase homolog with a chromodomain exists in multiple polymorphic forms in Arabidopsis

